

CITY COUNCIL AGENDA MEMORANDUM

SUBJECT

Resolution No. 8707 authorizing execution of a professional services agreement with CM Design Group for engineering services, for the Overlay and Pavement Restoration project, in the amount of \$216,000 (CIP Plan No. W-16).

FISCAL IMPACT

This contract obligates the City to an amount up to \$216,000. This work is included in the 2013-2019 CIP. Sufficient budget exists within the Small Diameter Water Main Replacement, (CIP Plan No. W-16) to fully fund this contract.

STAFF CONTACT

Nav Otal, Director, 452-2041

Paul Bucich, Engineering Assistant Director, 452-4596

Utilities Department

POLICY CONSIDERATION

Utilities Department policies:

- Investing resources as necessary to construct, maintain and renew water system infrastructure and equipment so that Utility customers are provided with consistent, reliable service.

Utilities Department practice:

- Replace small diameter asbestos cement water main installed in the late 1940's and 1950's to reduce the possibility of water main breaks. CIP Plan No. W-16 has been designated to do this.

City Contracting policies:

- BCC 4.28 provides for the fair and equitable treatment in the purchasing process. Because the amount of the contract exceeds \$50,000, Council approval is required.

BACKGROUND

W-16 consists of the replacement of the City's asbestos cement (AC) water main throughout the water service area. The City currently replaces at least 16,000 linear feet of AC water main each year. Many of these replacement sites are in other jurisdictions that require an overlay following water main construction. Annually, the City bids a project to overlay and restore these roadway pavements disturbed by the previous year's AC water main replacement, sewer and storm utility projects. This consulting services contract is to provide design, permitting, plans, specifications and engineer's estimates (PS&E) for one public works bid package per year for the next four years. Each bid package will consist of approximately 6,500 LF of pavement restoration for up to 14 sites each year.

The consultant selection process for this project was consistent with the City's policies and procedures. A selection team representing engineering design participated in the consultant selection. Statements of Qualifications (SOQ's) on the Shared Procurement Portal were reviewed for experience in roadway

pavement design. Five firms with Roadway Pavement Design experience were invited to submit Statement of Qualifications detailing specific and recent experience with overlay and pavement restoration. Five engineering firms submitted SOQs. The selection team reviewed SOQs submitted by:

- WH Pacific
- David Evans
- CM Design Group
- Pace
- SDA.

CM Design Group was selected as the most qualified firm for this project. CM Design Group has completed recent and relevant overlay and pavement restoration projects with local utilities. This has included the design of pavement overlay and restoration projects with the cities of Bellevue, Mercer Island, and Bothell.

As required by state law relating to contracts for architectural and engineering services, the City selects the consultant deemed to be the most highly qualified for a given project. State law precludes using cost as a basis for selection of engineering firms.

EFFECTIVE DATE

If adopted, this Resolution will become effective immediately.

OPTIONS

1. Adopt Resolution No. 8707 authorizing execution of a professional services agreement with CM Design Group for engineering services, for the Overlay and Pavement Restoration project, in the amount of \$216,000 (CIP Plan No. W-16).
2. Do not adopt the Resolution and provide alternative direction to staff.

RECOMMENDATION

Adopt Resolution No. 8707 authorizing execution of a professional services agreement with CM Design Group for engineering services, for the Overlay and Pavement Restoration project, in the amount of \$216,000 (CIP Plan No. W-16).

MOTION

Move to adopt Resolution No. 8707 authorizing execution of a professional services agreement with CM Design Group for engineering services, for the Overlay and Pavement Restoration project, in the amount of \$216,000 (CIP Plan No. W-16).

ATTACHMENTS

CIP Project Description
Proposed Resolution No. 8707

AVAILABLE IN COUNCIL OFFICE

Consultant Contract

W-16 Small Diameter Water Main Replacement

Category: **Water**
 Department: **Utilities**

Status: **Ongoing**Location: **Various locations throughout Water Utility's service area****Programmed Funding**

Programmed Funding	Appropriated To Date	FY 2013 Budget	FY 2014 Budget	FY 2015 Budget	FY 2016 Budget	FY 2017 Budget	FY 2018 Budget	FY 2019 Budget
89,443,058	36,739,552	5,359,024	6,059,309	6,788,816	7,547,194	8,349,776	9,175,831	9,423,556

Description and Scope

This program focuses primarily on replacing short-lived small diameter asbestos cement (AC) pipe, which yields a secondary benefit of increasing the emergency fireflow available to neighborhoods. This investment will ramp up water pipeline replacement to 5 miles/year by 2018, and then be adjusted with inflation to maintain the 5 miles/yr replacement rate. At that rate, water pipe will need to last on average 100-125 years. Pipes are selected for replacement based on risk of failure (likelihood and consequence), failure history, and coordination with other construction, such as planned street overlays (which reduce restoration costs).

PROJECT NEED: **System Renewal and Replacement****Rationale**

Water pipeline replacement will ramp up from 1.5 miles per year to 5 miles per year over a year-year period. Acceleration of this project is required to achieve the Asset Management Program (AMP) goal of cost effective system renewal and replacement while maintaining acceptable customer service levels. Experience has shown that small diameter AC pipes have the shortest life. AC pipe fails catastrophically, often causing significant damage to nearby properties and triggering more breaks in nearby AC pipes.

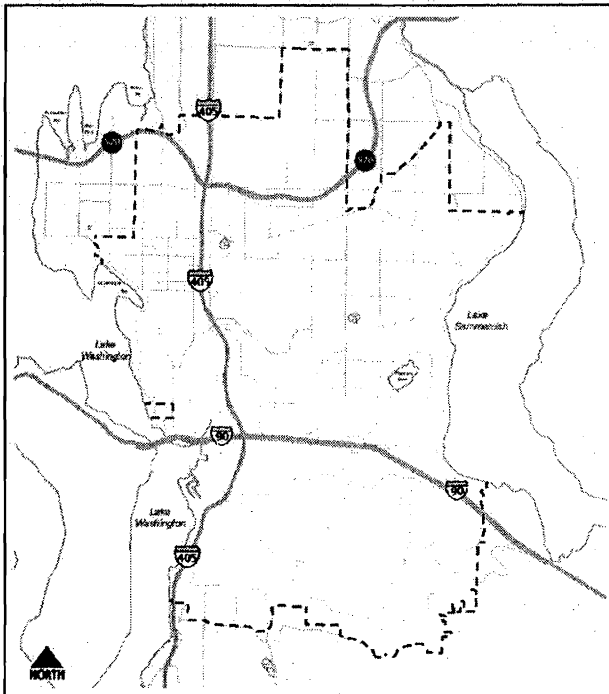
Small diameter AC pipe accounts for a disproportionate share of water main breaks. Besides size and material, soil corrosiveness, moisture content, and original construction quality affect pipe life. As budgeted, most 4-inch AC pipe will be replaced by 2017, reaching a maximum pipe age of 61 years. Replacement of 6-inch AC main would follow, over a 30 year period. Larger diameter mains would be replaced before they reach 125 years old. Pipes of other materials (ductile and cast iron, clay) will also be replaced as needed. The potential for main breaks will be significantly reduced, minimizing service disruptions to customers and costly emergency repairs, and reducing claims exposure.

Environmental Impacts

Replacement of Water mains less than eight inches in diameter are generally exempt from environmental review, unless they are in or adjacent to sensitive areas. The status of environmental review of specific projects is undetermined.

Operating Budget Impacts

This project will have no impact on operating revenues (and/or) expenditures, since it replaces existing facilities.

Project Map**Schedule of Activities**

Project Activities	From - To	Amount
Project Costs	Ongoing	89,443,058

Total Budgetary Cost Estimate: 89,443,058

Means of Financing

Funding Source	Amount
Judgements/Settlements	42,000
Miscellaneous Revenue	946,000
Utility Rates/Fees	88,455,058

Total Programmed Funding: 89,443,058

Future Funding Requirements: 0

Comments

This project is located throughout the service area.

CITY OF BELLEVUE, WASHINGTON

RESOLUTION NO. 8707

A RESOLUTION authorizing the execution of a professional services agreement with CM Design Group, in an amount not to exceed \$216,000 (CIP Plan No. W-16) for engineering services for the Overlay and Pavement Restoration Project.

THE CITY COUNCIL OF THE CITY OF BELLEVUE, WASHINGTON, DOES RESOLVE AS FOLLOWS:

Section 1. The City Manager or his designee is hereby authorized to execute a professional services agreement with CM Design Group in an amount not to exceed \$216,000 (CIP Plan No. W-16) for engineering services for the Overlay and Pavement Restoration Project, a copy of which agreement has been given Clerk's Receiving No. _____.

Passed by the City Council this _____ day of _____, 2014, and signed in authentication of its passage this _____ day of _____, 2014.

(SEAL)

Claudia Balducci, Mayor

Attest:

Myrna L. Basich, City Clerk